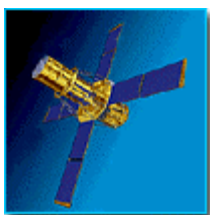


Tuesday, June 5, 2001

HESSI launch from CCAFS to take off NET June 12

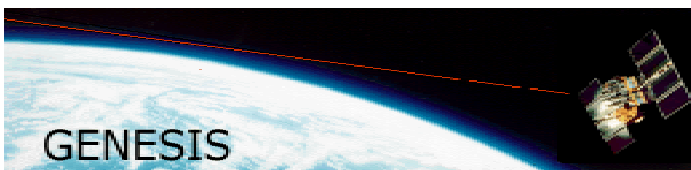


Atlantis to launch NET July 2 – rollout to pad NET June 11



▲ **ELV Update: The (High Energy Solar Spectroscopic Imager (HESSI) mission** is scheduled to take off no earlier than June 12 at 9 a.m. EDT from Cape Canaveral Air Force Station aboard a Stargazer L-1011 aircraft. The Stargazer cradles HESSI stored inside

a Pegasus rocket under its belly. The aircraft should release the Pegasus and deliver the spacecraft to its circular orbit 373 miles above the Earth, inclined at 38 degrees to the equator. To understand the physical processes and conditions inside flares, HESSI will create images in gamma rays and the highest energy X-rays emitted by solar flares. These images will be the first to simultaneously measure the location and energy content of radiation from the flare material. This kind of data is expected to improve predictability of flare occurrence at the Sun and the subsequent consequences we experience here on Earth.



NASA's **Genesis** spacecraft arrived at the Shuttle Landing Facility last week aboard an Air Force C-17 aircraft. Built by Lockheed Martin Astronautics in Denver, Colo., the spacecraft will undergo final launch preparations in the Payload Hazardous Servicing Facility. Genesis will capture samples of the ions and elements in the solar wind and return them to Earth for scientists to use to determine the exact composition of the Sun and the solar system's origin. By studying the solar wind, scientists will find

clues to the formation of the solar system as it is known today. Launch aboard a Boeing Delta II rocket is scheduled for July 30 at 12:36 p.m. EDT. NASA's Genesis project is managed by the Jet Propulsion Laboratory in Pasadena, Calif.



▲ **Shuttle Update:** Managers are targeting a launch of Space Shuttle Atlantis no earlier than July 2 pending resolution of the International Space Station's robot arm problem. Atlantis will roll out to the launch pad no earlier than June 11, with first motion at 2 a.m.

◆ **Reminder:** Motivational speaker Dr. Jack Barnathan, a body-building judge, chiropractor, lecturer, faculty member of the ISSA (International Sport Science Association) and founder of NYSTRENGTH, a consulting group, will explain how fitness is tied into space technology. His presentation will be held Friday, June 8, in the Training Auditorium from 11:30 a.m. to 12:30 p.m. For more information, call Lauren Chadwick at the KSC Fitness Centers, 867-7829.

◆ **Did You Know?** If airplane travel is in your vacation plans, be aware of certain health risks on long flights. Immobilization in airline seats for long durations increases the risk for deep vein thromboses (DVT). DVT are blood clots that cause swelling and irritation inside veins. In some cases, DVT may contribute to other serious medical problems such as heart attack or stroke. To prevent DVT, stand up and walk around on long flights, drink adequate fluids, avoid alcoholic beverages, and avoid crossing legs or awkward hip or knee positions whenever seated.★

KSC Countdown is published every Tuesday & Thursday.

Deadlines: 10 a.m. the day before. Send information, comments or questions to:

E-mail – Anita.Barrett-1@ksc.nasa.gov ◆ Mail Code – IDI-011 ◆ Telephone – 867-2815
Countdown on the Internet -- <http://www-pao.ksc.nasa.gov/kscpao/ksccount/2001/2001.htm>